

**SYSTEM AND METHOD FOR MAINTAINING LARGE-GRAINED
DATABASE CONCURRENCY WITH A LOG MONITOR
INCORPORATING DYNAMICALLY REDEFINABLE BUSINESS LOGIC**

Abstract

5 A system and method for maintaining large-grained database concurrency
with a log monitor incorporating dynamically redefinable business logic are
described. Operations expressed in a data manipulation language are executed
against a source database. At least one operation constitutes a commit operation
that completes each database transaction. A current rule set is defined. Each rule
10 includes business logic specifying a data selection criteria for records stored in the
source database. A log entry is periodically generated in a log for each
transaction committed to the source database. Each log entry identifies an
affected record and includes transactional data. The transaction identified in each
log entry is evaluated against the data selection criteria specified in the current
15 rule set. A new record is built in accordance with metadata describing a
destination database. The new record contains select transactional data from the
log entry of each transaction meeting the selection criteria. The new record is
stored into the destination database. The data stored in the destination database
includes at least a partial subset of the source database.